

# Simplifying Expressions Practice

Name \_\_\_\_\_

Date \_\_\_\_\_ Block \_\_\_\_\_

\* Do work on a separate sheet and staple to this!

**Simplify.**

1.  $(6x^2 - 3x + 2) - (4x^2 + x - 3)$

2.  $(7y^2 + 12xy - 5x^2) + (6xy - 4y^2 - 3x^2)$

3.  $(-4m^2 - 6m) - (6m + 4m^2)$

4.  $27x^2 - 5y^2 + 12y^2 - 14x^2$

5.  $\frac{a}{5} + \frac{2a}{5}$

6.  $\frac{x}{4} + \frac{x}{2}$

7.  $\frac{x+1}{3} + \frac{x}{4}$

8.  $\frac{x-3}{5} + \frac{x+1}{2}$

9.  $\frac{h+3}{7} + \frac{h-1}{2}$

10.  $\frac{f-5}{4} + \frac{5f}{6}$

11.  $2x(3x^2 - 5)$

12.  $7a(6 - 2a - a^2)$

13.  $-5y^2(y^2 + 2y - 3)$

14.  $(x - 2)(x + 7)$

15.  $(5 - 4x)(3 - 2x)$

16.  $(2x - 1)(3x + 5)$

17.  $3(4c - 2d) - 5(c + 3d)$

18.  $8(-2a + 3b) + 2a$

19.  $\frac{1}{4}(12f + 4g) - \frac{1}{3}(15f - 9g)$

20.  $(y - 8)^2$

21.  $(g + 5) + (2g + 7)$

22.  $(5d + 5) - (d + 1)$

23.  $2q(3pq + 4q^4)$

24.  $-9xy + 11x^2 - 14y^2 - (6y^2 - 5xy - 3x^2)$

25.  $(4r^2 - 6r + 2) - (-r^2 + 3r + 5)$